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Please find below and/or attached an Office communication concerning this application or proceeding.

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1	RECORD OF ORAL HEARING
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3 4	UNITED STATES PATENT AND TRADEMARK OFFICE
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6	BEFORE THE BOARD OF PATENT APPEALS
7	AND INTERFERENCES
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10	Ex parte FRANCESCA PIGNAGNOLI,
11	PAOLO GOLINI,
12	and EILEEN M. LANCASTER
13	
14	1 2000 001207
15 16	Appeal 2009-001285
17	Application 10/539,961 Technology Center 1700
18	Technology Center 1700
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20	Oral Hearing Held: April 23, 2009
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24	Before CHUNG K. PAK, TERRY J. OWENS, and
25	BEVERLY A. FRANKLIN, Administrative Patent Judges
26	ON PERMANE OF THE APPEALANCE
27	ON BEHALF OF THE APPELLANT:
28	Ray Ashburg, Esquire
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1 MS. BEAN: Calendar No. 52, Mr. Ashburg. 2 JUDGE PAK: Mr. Ashburg. 3 MR. ASHBURG: Yes. Good afternoon. 4 JUDGE PAK: Good afternoon. We have a court reporter here today. 5 He's going to transcribe the entire hearing, and the resulting transcript will 6 become part of the record. 7 MR. ASHBURG: Sure. 8 JUDGE PAK: And you may start anytime you wish. You've got 20 9 minutes. 10 MR. ASHBURG: Okay. May it please the court, my name is Ray 11 Ashburg. I'm an attorney with Dow Chemical, and I represent the 12 Appellant, Mr. Francesca Pignagnoli. 13 There are two issues before the Board today. 14 First is the combined teachings of Hickey and Chow do not disclose each 15 and every element of our claimed invention, and the second issue is 16 assuming that for the sake of argument that the Examiner has established a 17 prima facie case of obviousness, we have -- the Applicant has shown that 18 there are unexpected results, and however the Examiner has requested 19 substantial showing, requested a higher standard of showing of unexpected 20 results, clear and convincing, and her -- his position is not warranted. 2.1 With regard to the first issue, the, the claimed invention is a 22 composition that requires three components. One of the components is a 23 blown agent of formic acid, and the amount of that formic acid is from 1.5 to 24 3.5 parts per 100 parts of the polyol. The reference one which is Hickey, 25 and I want to bring that to your attention on column 16, lines 1 through 18. 26 basically describes the combination of the different components, and

specifically on line 6 it says the amount of hydrocarbon blown agent based on the weight of all foaming ingredients is generally between 3 to 15 percent by weight and preferably 5 to 10 percent by weight. That's if we have the combination.

And if you go to the next paragraph, the weight of all blown agents in the resin is, is generally from about 5 to 35 parts per 100 parts of polyol and preferably from 10 to 30 percent. There is no explicit telling of how much formic acid you actually have in this composition of Hickey. But if you do the math, and you look at what it is in the first paragraph as far as the combination, and take that into account of how much of the second part is just the, the total amount of the blown agent is from 5 to 35 parts per 100 of the polyol and only 5 -- only 3 to 15 percent of that would be your hydrocarbon. So the remaining of that would be basically any other blown agents that they have listed in this Hickey basically prior art.

And assuming that 100 percent of that is formic acid at 15 percent of the, of the 15 percent of the 5 parts per, per 100, .75 percent of it is going to be hydrocarbon, and therefore your formic acid level would be 4.25 which is much higher than our extreme end of 3.5. At 10 percent of the 5 percent, which is the lower end, you have .5 percent of hydrocarbon, and therefore the remaining of the 5 percent would be -- the 5 parts would be 4.5 of formic acid. Again, it's way more than 3.5. The 5 percent of the, of the 5 parts per 100 of the polyol, you will have .25 percent of the hydrocarbon, and then the remaining of that 5 parts would be 4.75 formic, formic acid which is again greater than 3.5. And if you have 3 percent of the 5 parts per 100, you will have .15 parts of the hydrocarbon and 4.85 of the formic acid. All of those

are based on the lower end of what's disclosed in the second paragraph of 5 1 2. to 35 percent basically of, of all the blown agents. 3 Taking that into consideration, our range is from 1.5 to 3.5. Assuming 4 Hickey and Chow combined together. Chow basically discloses the polyol. 5 Doesn't say anything about the formic acid. Doesn't say anything about the, 6 the ranges. Even you combine those, none of these two prior arts actually 7 disclose anything between 1.5 to 3.5. In fact, their ranges are above that 8 point, above the 3.5. The, the lowest is 4.25 formic acid. 9 So I've gone through this process. I've explained to the Examiner, but 10 I don't seem to get a response that, okay, either my math is wrong, or please 11 show me how you calculate basically the, the amount of formic acid based 12 on Hickey that falls within that 1.5 to 3.5. I've gone beyond that, I assumed 13 that the Examiner had established basically prima facie case of obviousness, 14 and we have submitted declaration. We have shown comparative examples 15 and then to show the substantial improvements based on our, on our 16 expected results. But the response is you have to -- the showing -- the actual 17 showing has to be -- not only it has to be substantial, it has to be a 18 substantial showing of substantial improvements which is not the standard. 19 Clear and convincing is not the standard of showing of an unexpected 20 results. I'm not familiar with a case that actually requires a clear and 21 convincing of unexpected results, and I'm not sure if the Examiner can support that. 22 23 JUDGE PAK: I think re Hevna (phonetic sp.) states that the old 24 CCPA case --25 MR. ASHBURG: I'm sorry?

1 JUDGE PAK: Old CCPA case In re Hevna states that the appellant 2 has a burden of showing by clear and convincing evidence --3 MR. ASHBURG: There is a related case --4 JUDGE PAK: -- that their invention imparts unexpected results. 5 MR. ASHBURG: The only related case that I found is the -- did you 6 say Lore (phonetic sp.)? 7 JUDGE PAK: What? 8 MR. ASHBURG: Did -- I'm sorry, what was it --9 JUDGE OWENS: CCPA case In re Hevna. 10 MR. ASHBURG: Heyna. And again, I've looked at the In re Sony 11 basically that says if there is a showing of unexpected results, if the, if the 12 applicant states that, that the results are unexpected, there is a showing -- we 13 have shown that through comparative date there is a declaration that the data 14 is -- basically the results are unexpected. The Examiner is supposed to take 15 that as unexpected unless there is contrary evidence to that. I don't see any 16 contrary evidence. I haven't received any explanation of how we actually 17 get this 1.5 to 3.5 from that Hickey. I've shown my math. I'm not getting a 18 response of what is it -- how do, how, how does the Examiner look at this 19 and come up with 1.5 to 3.5 and accept basically the conclusive statements 20 that are made. It is shown in this paragraph. I've looked at the paragraph. 2.1 I've looked at it from every different angle, but I do not see 1.5 to 3.5 being 22 disclosed there. There are actually at least there's 4.25 even if you do the 23 math based on how much of it is hydrocarbon, and you subtract basically the 24 remaining aspects of it. Based on that combination disclosure, then you will 25 see that the, that the least amount of formic acid present, assuming all of it is 26 going to be formic acid, be 4.25.

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1 JUDGE PAK: Anv --2 JUDGE FRANKLIN: At the top of page 5 of the, of the Answer, isn't 3 it the Examiner's position that basically saving that determination of optimal 4 values within a disclosed range is generally considered obvious? Isn't that 5 how the Examiner handles that range issue? 6 MR. ASHBURG: Well, if you look at what Hickey says, it says --7 and you look at the number, and you do the math, you would view the 8 hydrocarbon, and you look at the other side, well, the remaining is going to 9 be what's left based on the formic acid, based on what the Examiner says. 10 They're all outside of that range. If anything, the teaching is, is teaching 11 away from what we're saying, what we're claiming. How could it be 12 obvious? I'm not sure if the teaching is exactly more than what I'm asking, 13 asking it to be. I'm asking it to be basically 1.5 to 3.5, and the, the closest 14 that I have in the prior art, even if I go based on those teachings, is 4.25 and 15 above. 16 JUDGE FRANKLIN: And then I have a question about your 17 declaration evidence. Could you explain how it is commensurate in scope 18 with your claim? 19 MR. ASHBURG: Actually, the --20 JUDGE FRANKLIN: I guess we'd be looking at that appendix A that 21 is attached to the declaration. MR. ASHBURG: We've submitted additional -- there's an appendix. 22 23 JUDGE FRANKLIN: Right, that --24 MR. ASHBURG: And you have example 3A, 3B, and 3C, and the

amount of formic acid that we had basically from .4, 1.6 and 8.1, and if you

go to the -- what we were trying to establish basically based on that was the

1 foam C without being outside the range and foam A being outside of the .5 2 range. 3 JUDGE OWENS: Is that commensurate in scope with the claims? 4 MR. ASHBURG: I believe so. I mean I'm looking at the 1.6 which is within the range of 1.5 to 3.5, and when I talked to the Examiner he's -- he 5 6 would be willing to give 1.5 to 2 but not 3.5. The reality, I don't have 7 support for it. Otherwise, that would be fine as far as the coverage. I do not 8 have explicit support for 1.5 to 2, whereas there is explicit support for 1.5 to 3.5, and it's the lower ends of basically the, the formic acid that we're 9 10 looking for. 11 JUDGE OWENS: Maybe the problem would be that the 3.5 is the 12 closest to the prior art? 13 MR. ASHBURG: I'm sorry? 14 JUDGE OWENS: The 3.5 is the closest to the prior art? 15 MR. ASHBURG: The 3.5, you're absolutely correct. It is closest to 16 the prior art, but the prior art if we, if we do the math, and we look at 17 basically how -- and consider that to be an explicit teaching of what that 18 prior art is teaching, obviously if it says basically X amount is going to be 19 hydrocarbon, and the remaining is going to be basically our formic acid, that 20 puts us outside of the range that we are saying, and looking at it from that 21 perspective it actually teaches away from what the range is for formic acid 22 that we do require. 23 JUDGE PAK: Thank you for coming. We will consider your 24 argument. 25 Whereupon, the hearing concluded on at 2:55 p.m. on 26 April 23, 2009.